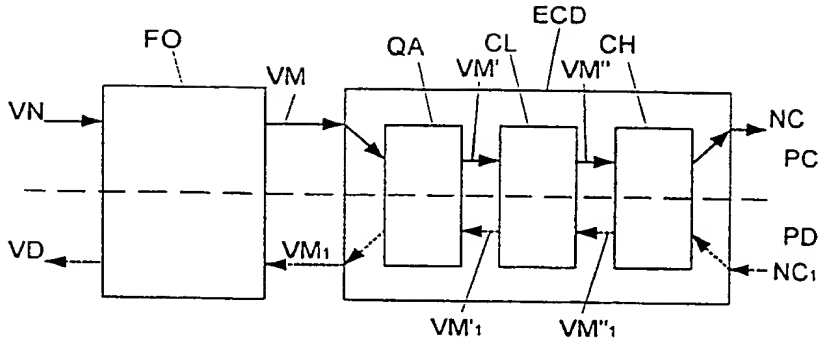
FIG_1



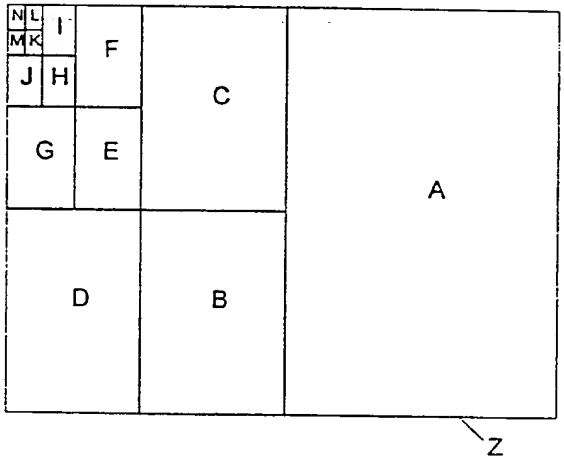


FIG_3

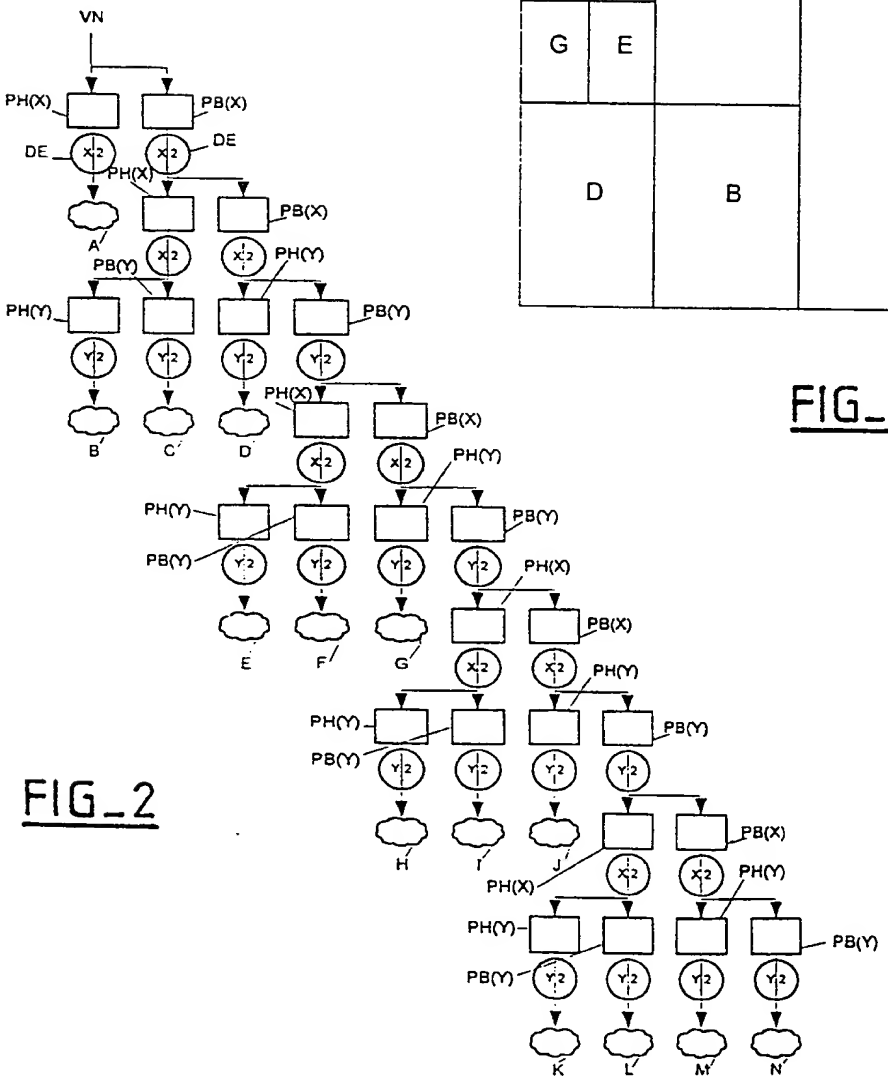


FIG_2

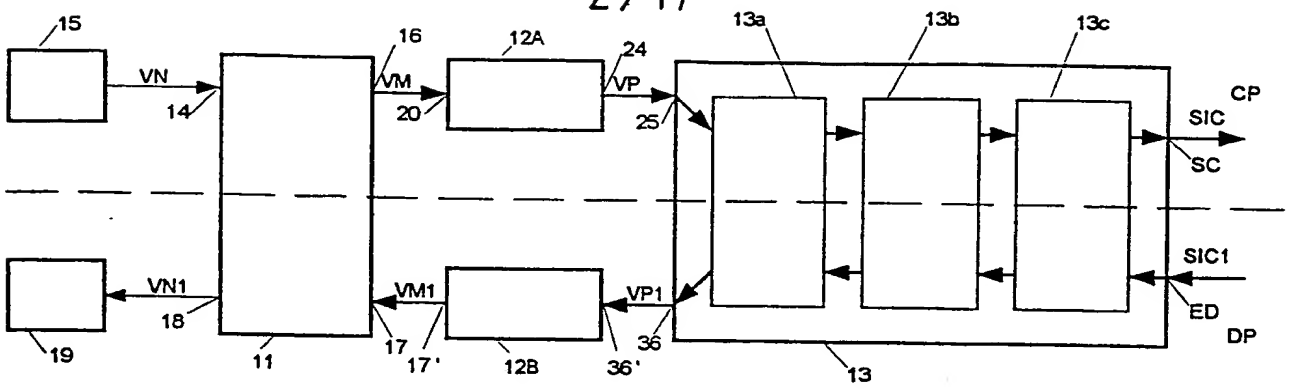

15
VN
14
16
VM
20
12A
24
VP
25
13a
13b
13c
CP
SIC
SC
SIC1
ED
DP
VN1
18
19
11
VM1
17
17'
12B
VP1
36
36'
13

Fig. 4

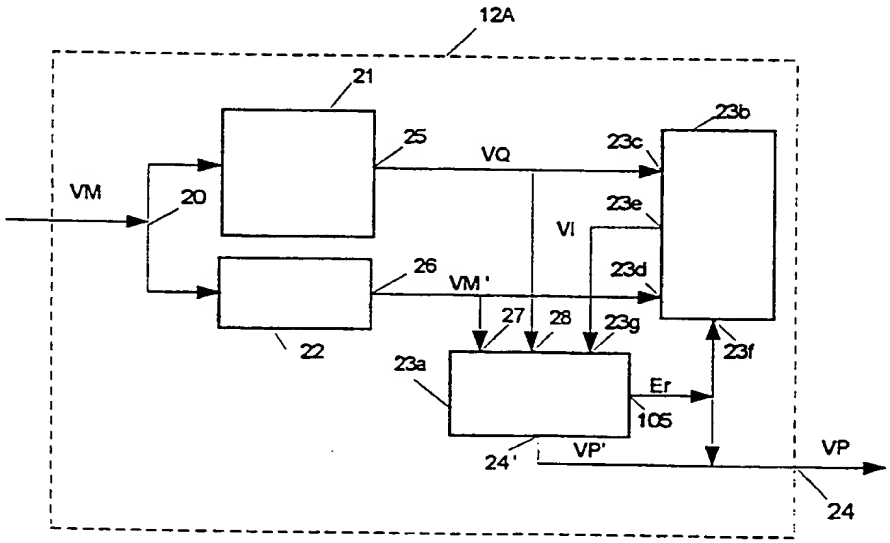

12A
21
25
VQ
23b
23c
VM
20
23e
VI
26
VM'
23d
27
28
23g
23f
22
23a
Er
105
24'
VP'
VP
24

Fig. 5

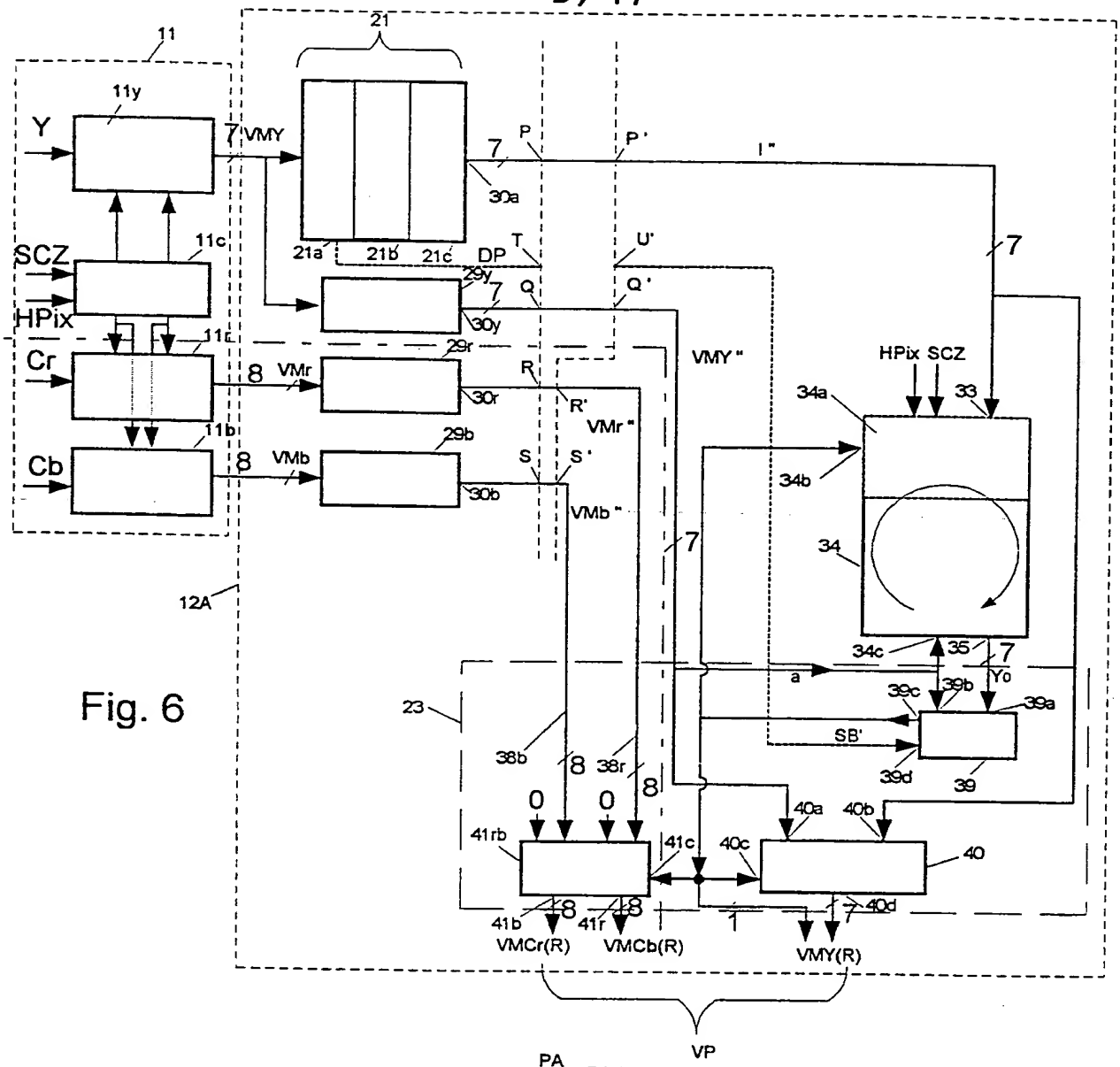
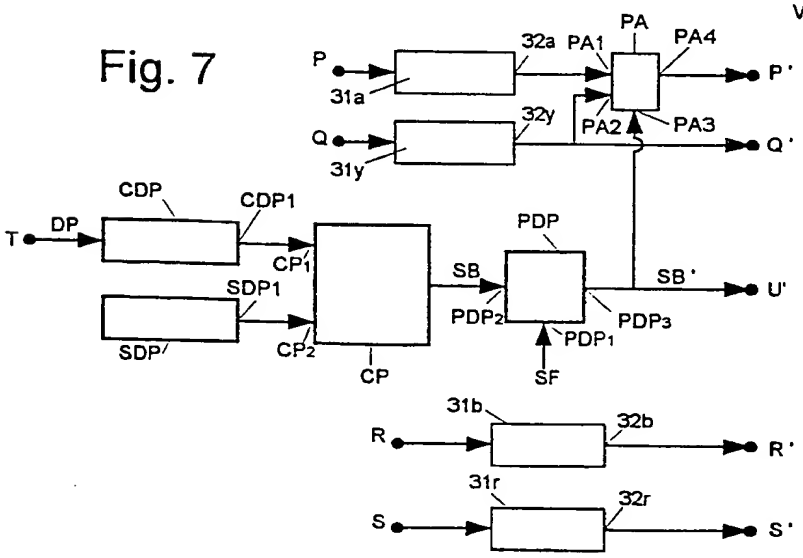

11
21
11y
Y
7
VMY
P
P'
I"
30a
21a
21b
21c
DP
T
U'
SCZ
11c
HPix
29y
Q
Q'
30y
11a
29r
VMY"
HPix SCZ
Cr
8
VMr
R
R'
30r
VMr"
34a
33
11b
29b
Cb
VMb
S
S'
30b
VMb"
34b
34
12A
34c
35
Y0
a
23
39c
39b
39a
SB'
38b
38r
39d
39
0
40a
40b
41rb
41c
40c
40
41b
41r
40d
VMCr(R)
VMCb(R)
VMY(R)
VP

Fig. 6

Fig. 7


P
32a
PA1
PA
PA4
P'
31a
PA2
PA3
Q
32y
Q'
31y
CDP
CDP1
T
DP
CP1
PDP
SB
SB'
U'
SDP1
PDP2
PDP3
PDP1
SDP
CP2
CP
SF
31b
32b
R
R'
31r
32r
S
S'

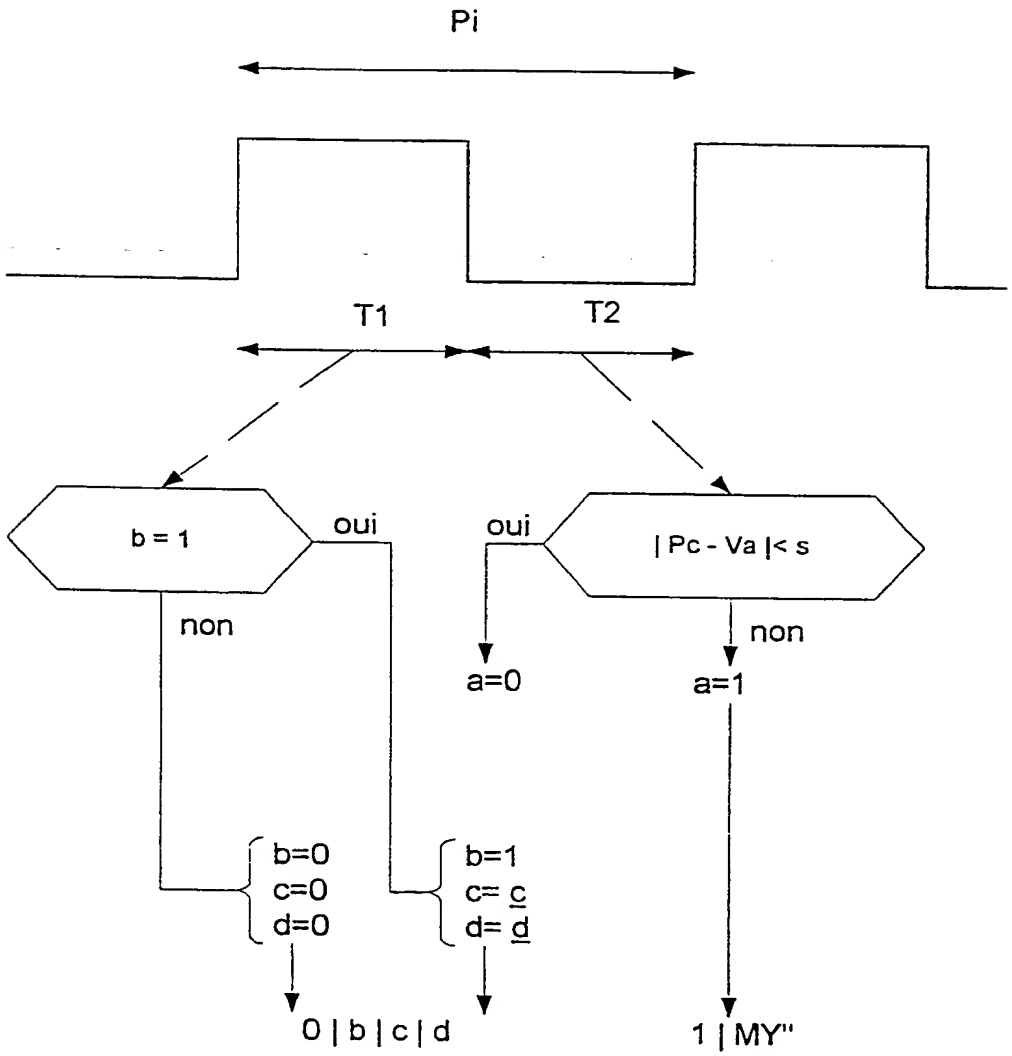


Fig. 8

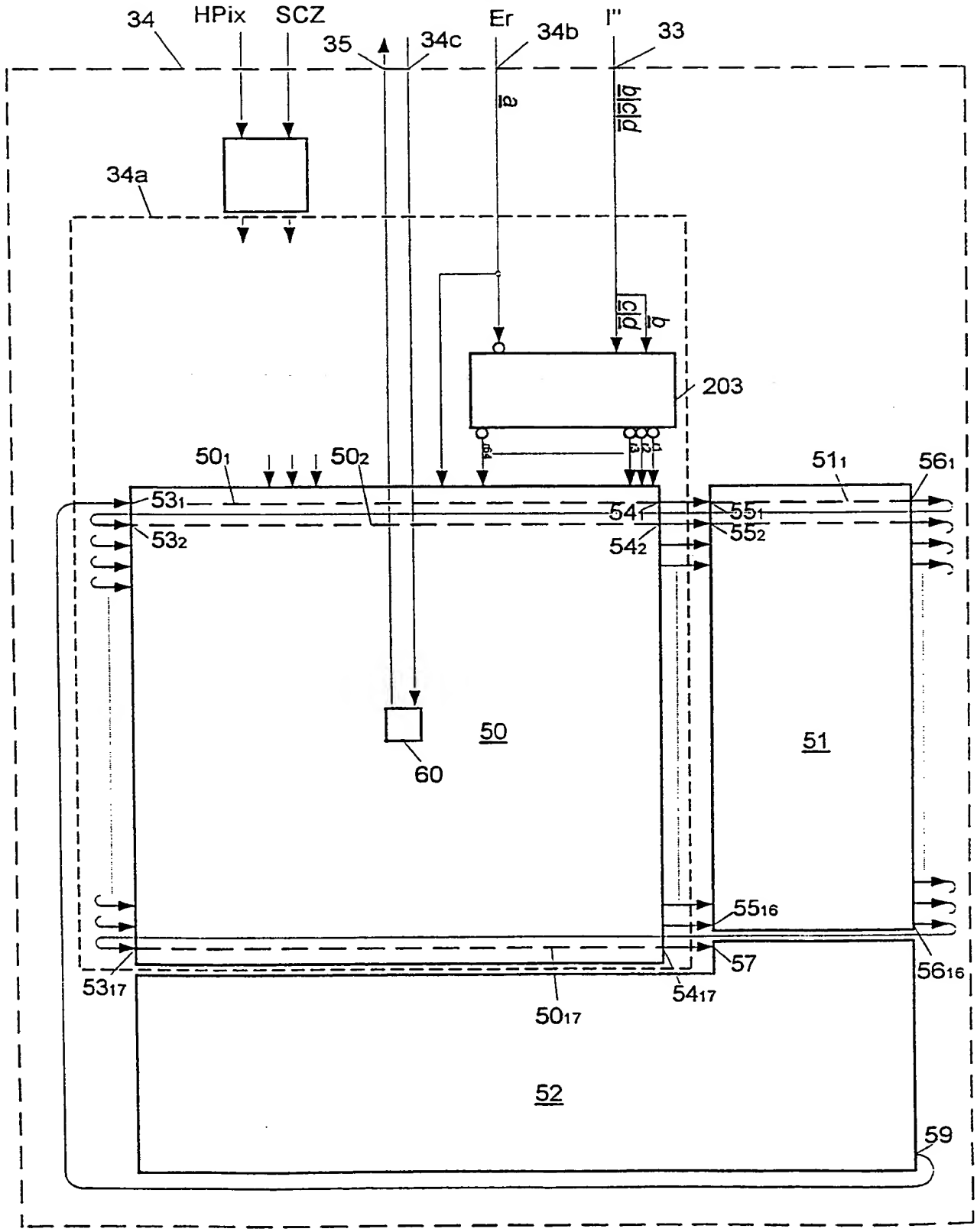


Fig. 9

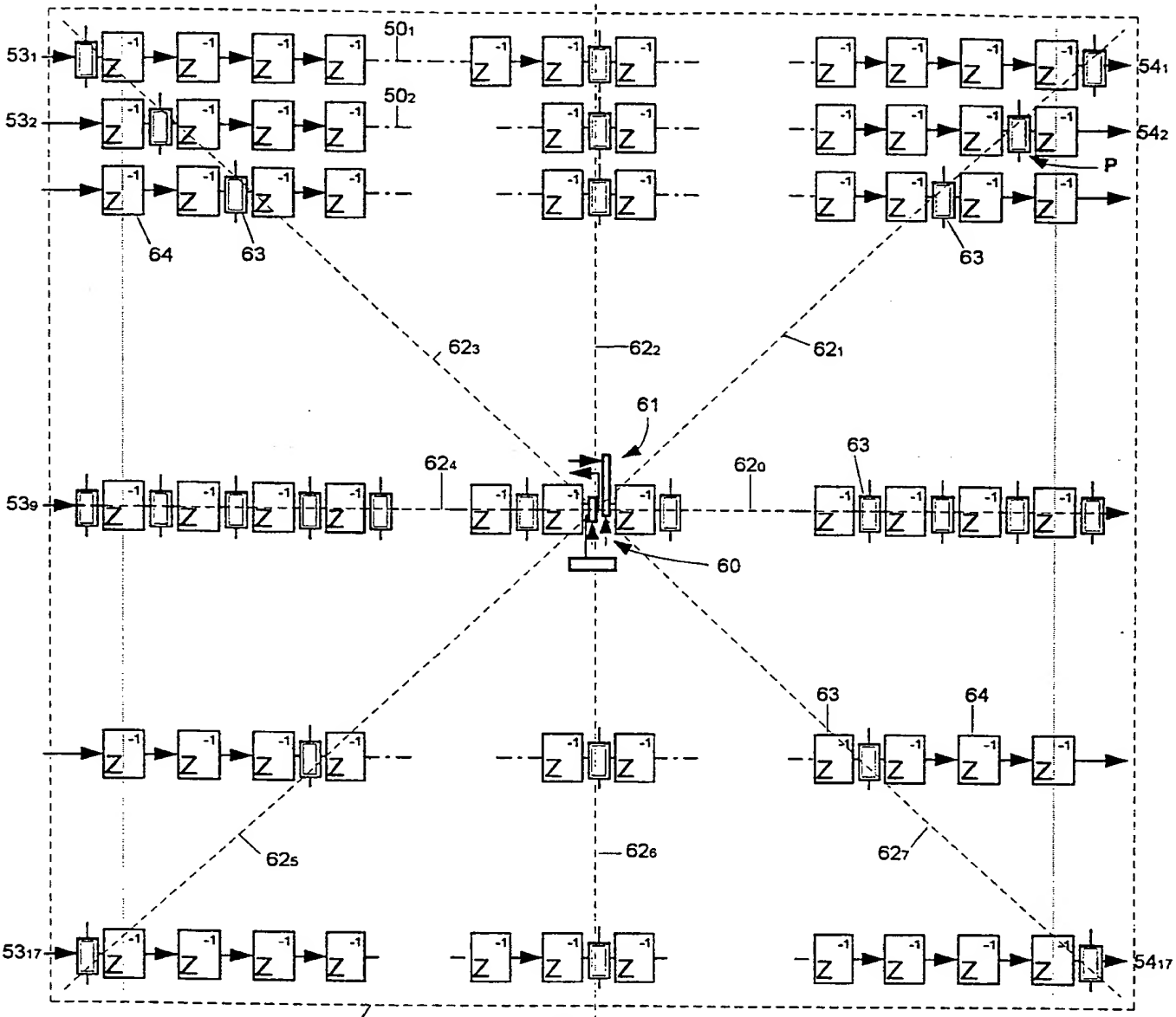


Fig 10

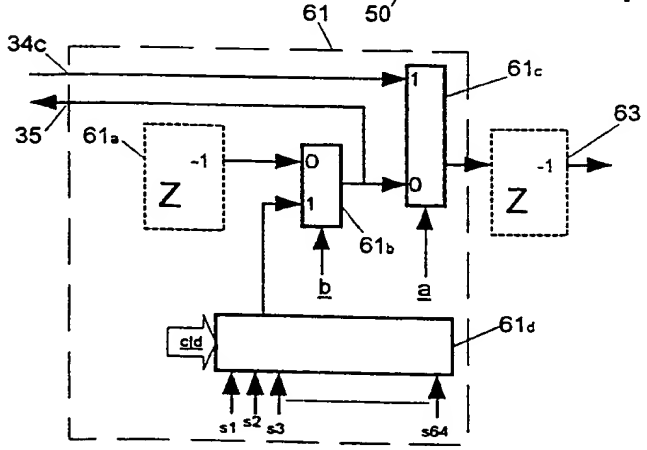


Fig. 11

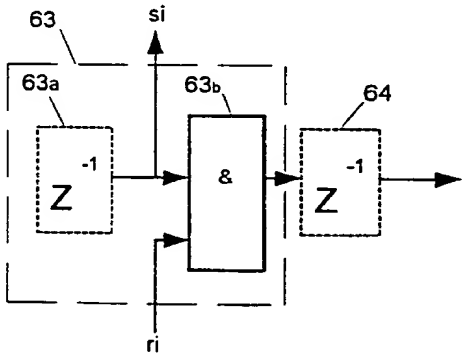


Fig. 12

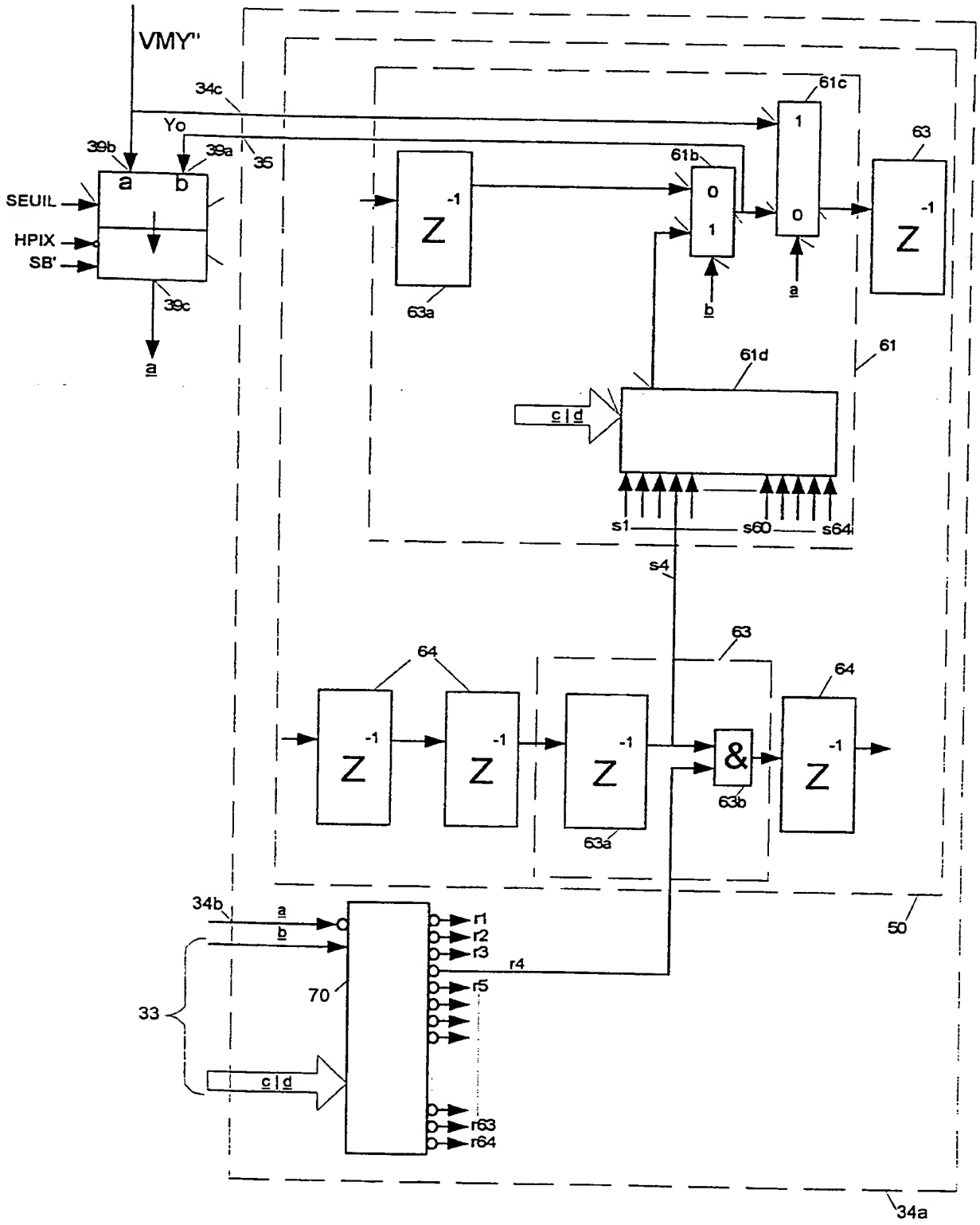

VMY''
34c
Yo
39b
39a
35
SEUIL
HPIX
SB'
a
b
39c
a
Z -1
63a
61c
1
0
61b
0
1
b
a
63
Z -1
61
61d
c | d
s1
s60
s64
s4
63
64
Z -1
Z -1
Z -1
&
63b
63a
64
Z -1
50
34b
a
b
33
70
r1
r2
r3
r4
r5
c | d
r63
r64
34a

Fig. 13

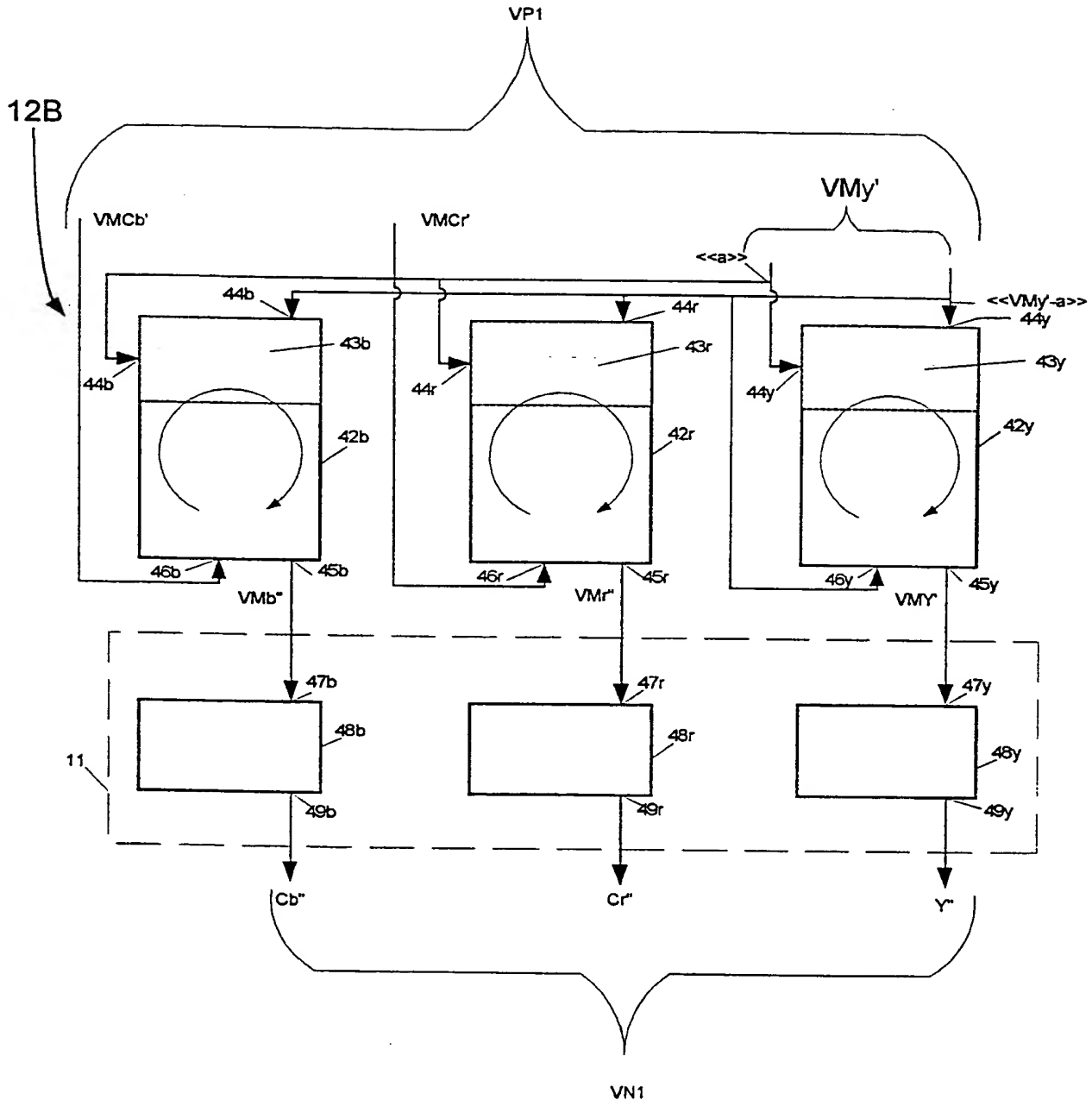

VP1
12B
VMy'
VMCb'
VMCr'
<<a>>
<<VMy'-a>>
44b
44r
44y
43b
43r
43y
42b
42r
42y
46b
45b
46r
45r
46y
45y
VMb"
VMr"
VMY"
47b
47r
47y
48b
48r
48y
11
49b
49r
49y
Cb"
Cr"
Y"
VN1

Fig. 14

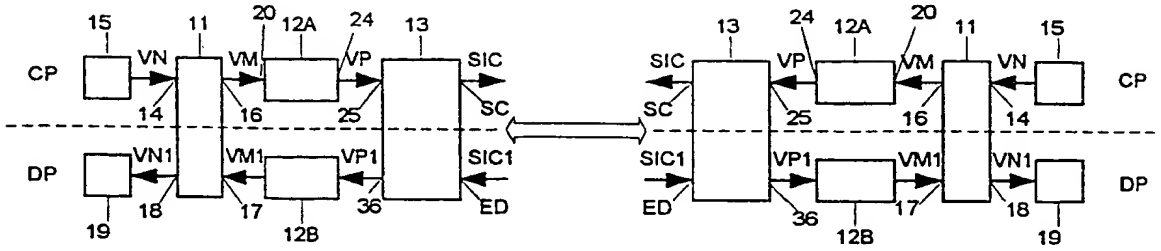


Fig. 15

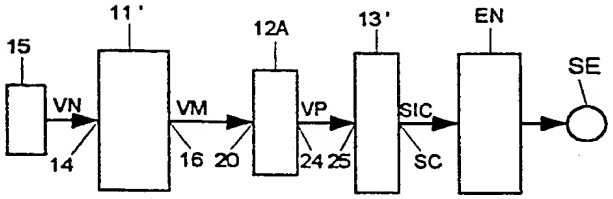


Fig. 16

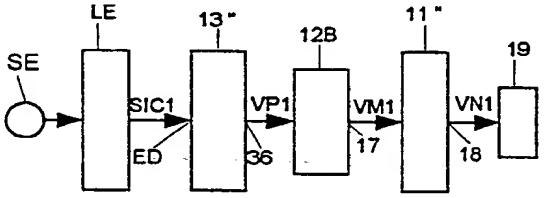


Fig. 17

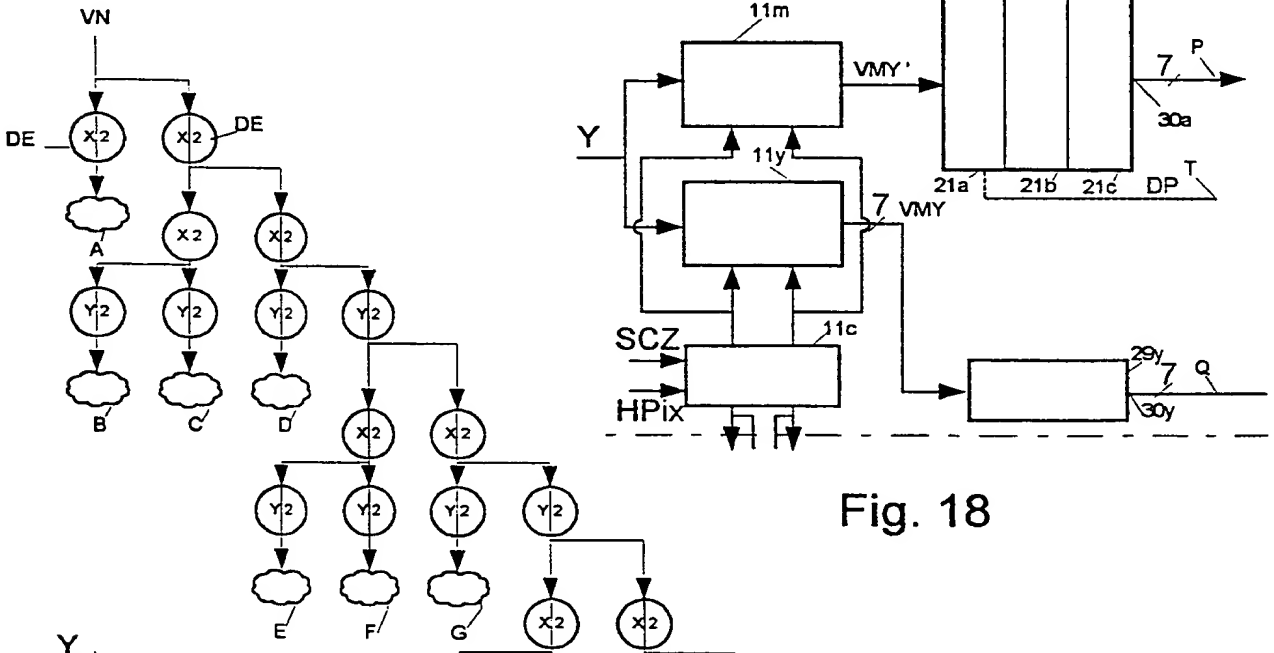


Fig. 18

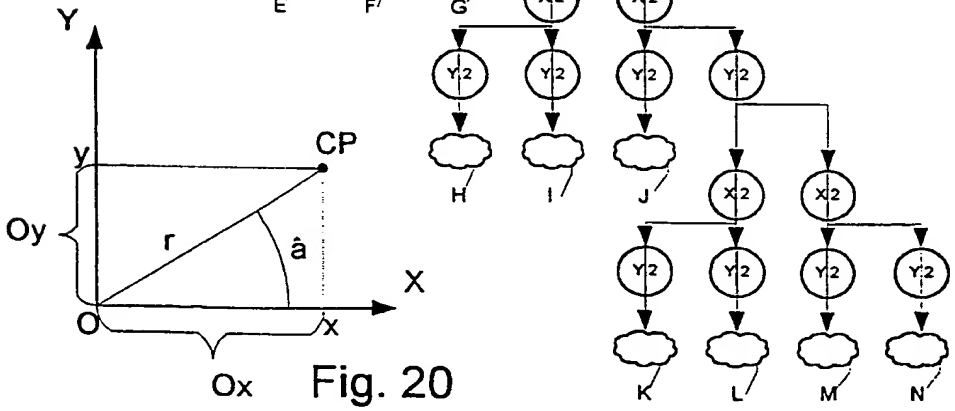
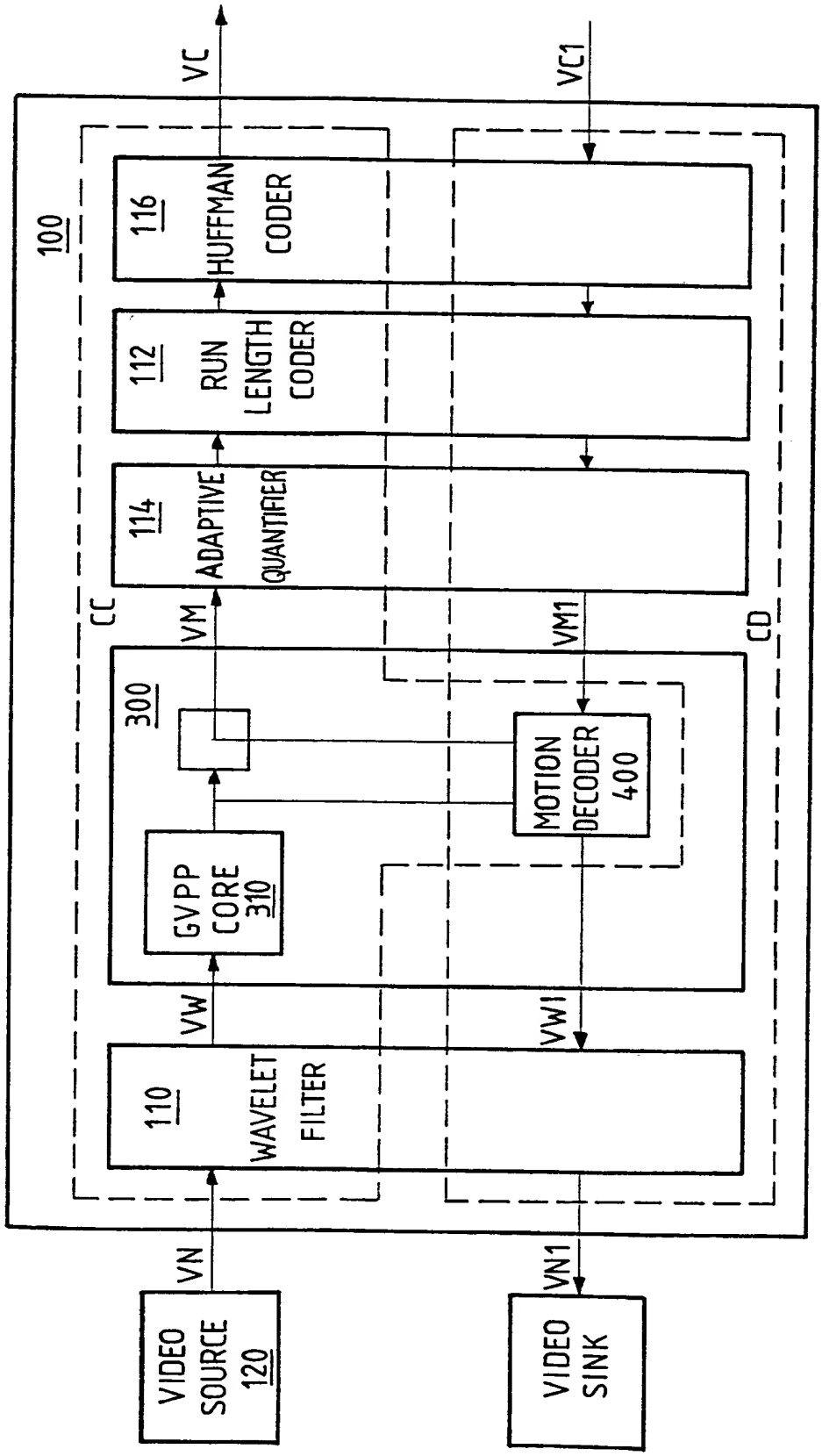


Fig. 20

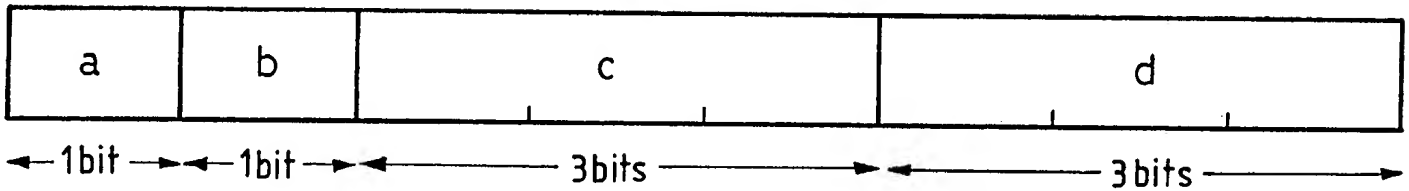
Fig. 19

FIG_21


VC
VC1
100
116
HUFFMAN CODER
112
RUN LENGTH CODER
114
ADAPTIVE QUANTIFIER
CC
VM
VM1
CD
300
MOTION DECODER 400
GVPP CORE 310
VW
VW1
110
WAVELET FILTER
VN
VN1
VIDEO SOURCE 120
VIDEO SINK

09763713 .100901

FIG_22



when a=1:

packet encodes a large change
| b | c | d | is seven bits of VW with no further encoding

when a=0 and b=1

packet encodes a small movement change
c = 3bits quantified magnitude
d = 3bits direction (Freeman code)

when a=0 and b=0

packet encodes a stationary pixed
c=0 and d=0

SUBSTITUTE SHEET (RULE 26)

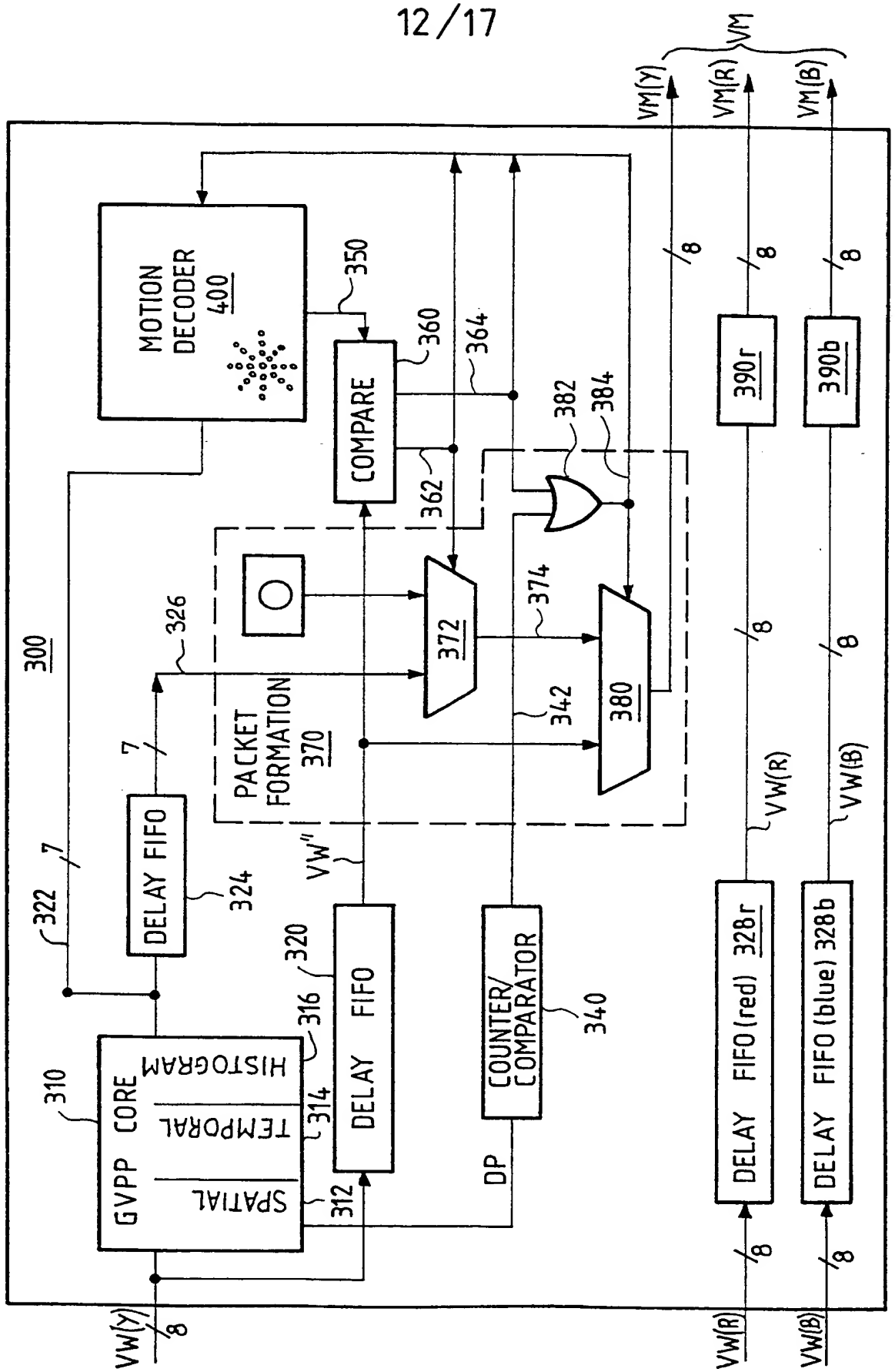
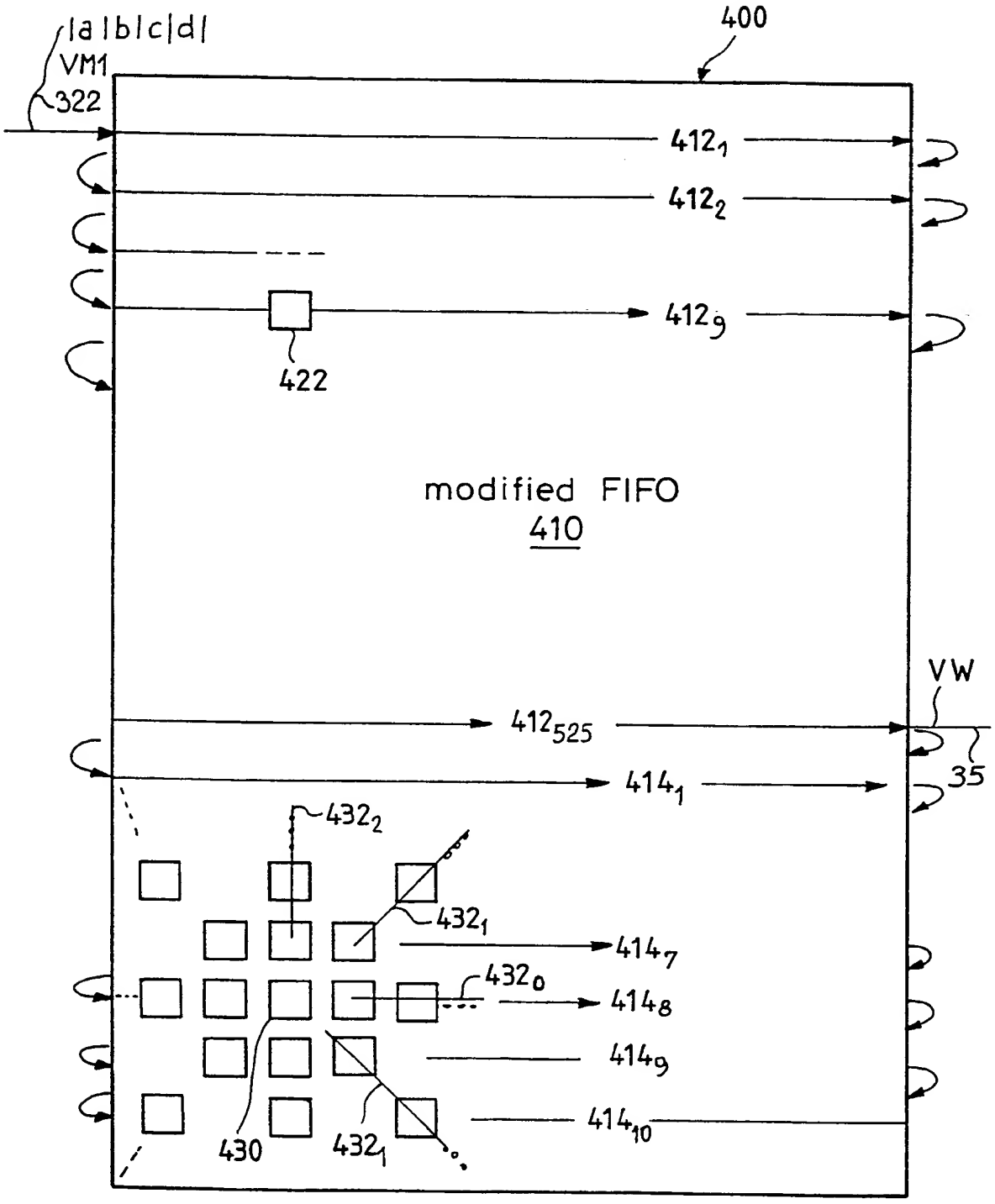

300
MOTION DECODER 400
350
COMPARE
360
364
362
382
384
372
374
380
342
PACKET FORMATION 370
326
DELAY FIFO
324
322
7
VW''
320
DELAY FIFO
316
314
312
GVPP CORE
HISTOGRAM
TEMPORAL
SPATIAL
310
DP
COUNTER/ COMPARATOR
340
VM(Y)
VM(R)
VM(B)
VM
8
390r
390b
VW(R)
VW(B)
DELAY FIFO (red) 328r
DELAY FIFO (blue) 328b
VW(Y)

FIG_23

09/763713

FIG_24a



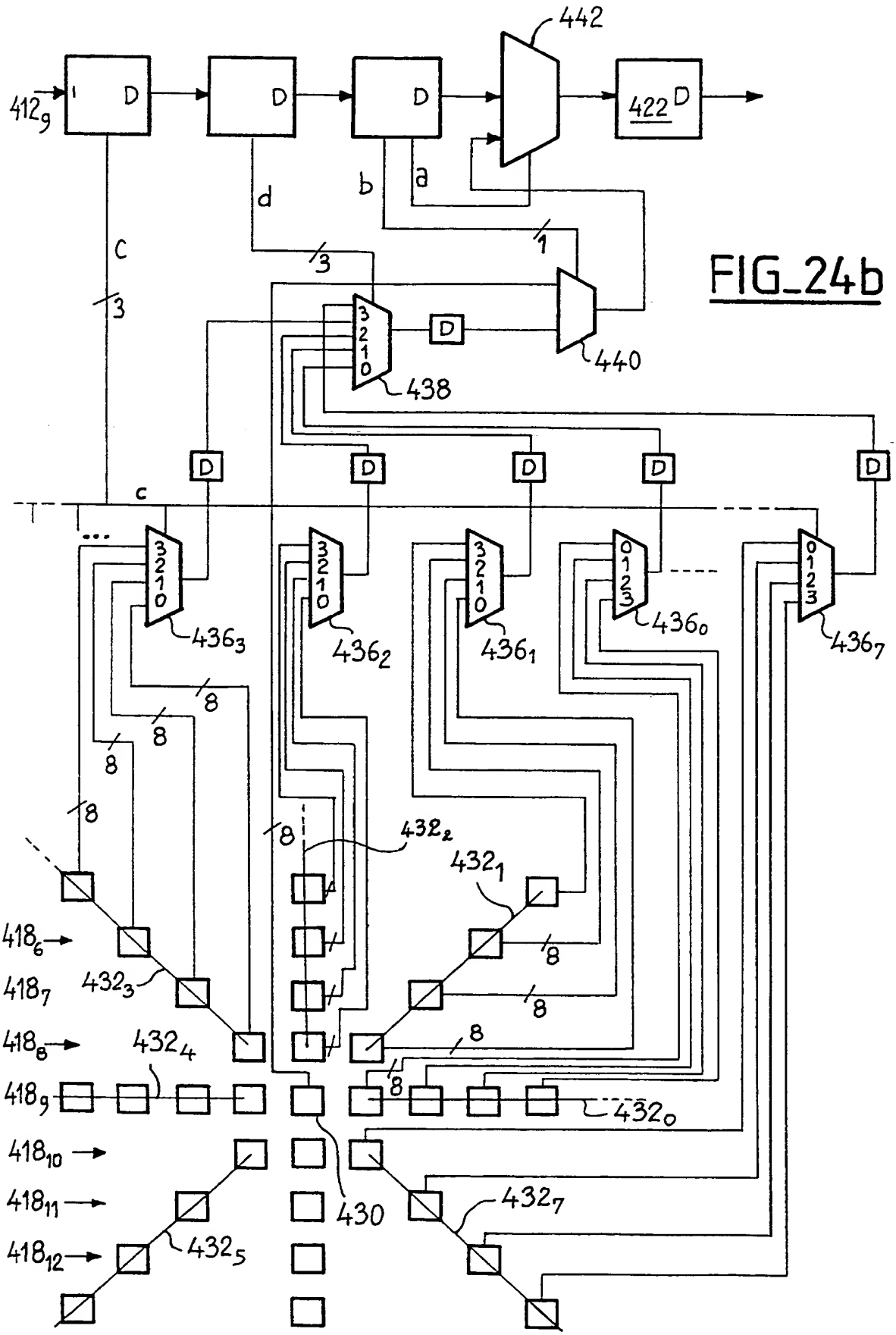
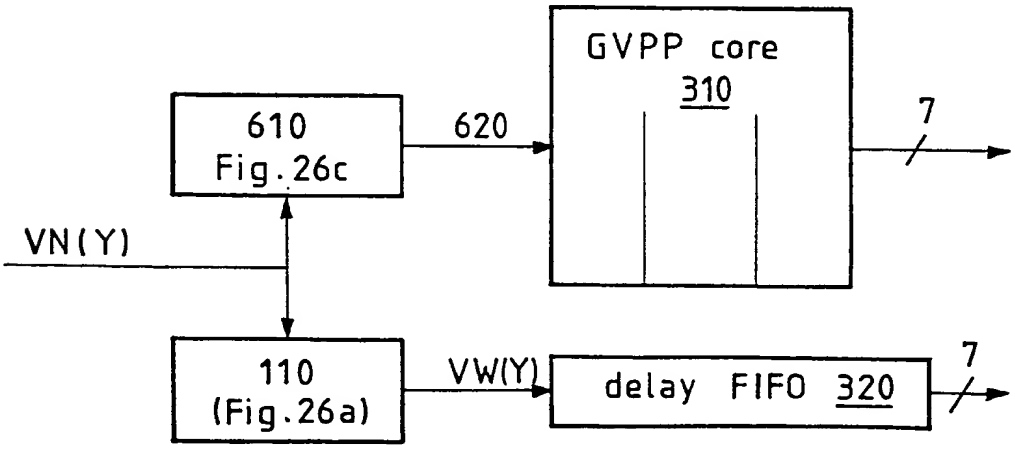

442
412_9
D
422
d
b
a
c
3
1
FIG_24b
438
440
436_3
436_2
436_1
436_0
436_7
8
432_2
432_1
418_6
418_7
432_3
418_8
432_4
418_9
432_0
418_{10}
418_{11}
418_{12}
430
432_7
432_5

FIG_25

106			105			104		103		102			101			100
	87				86			85			84				83	
		71			70			67			68			67		
107			55			54		53		52			51			99
				39		38		37		36		35				
					28			27			26			66	82	
108	88	72				15	14	13	12	11		34	50			98
			56	40		16	4	3	2	10						
109	89	73	57	41	29	17	5	0	1	9	25	33	49	65	81	97
						18	6	7	8	24						
110			58	42		19	20	21	22	23		48	64			120
	90	74			30			31			32			80	96	
				43		44		45		46		47				
111			59			60		61		62			63			119
		75			76			77			78			79		
	91				92			93			94				95	
112			113			114		115		116			117			118

FIG_26d



16/17

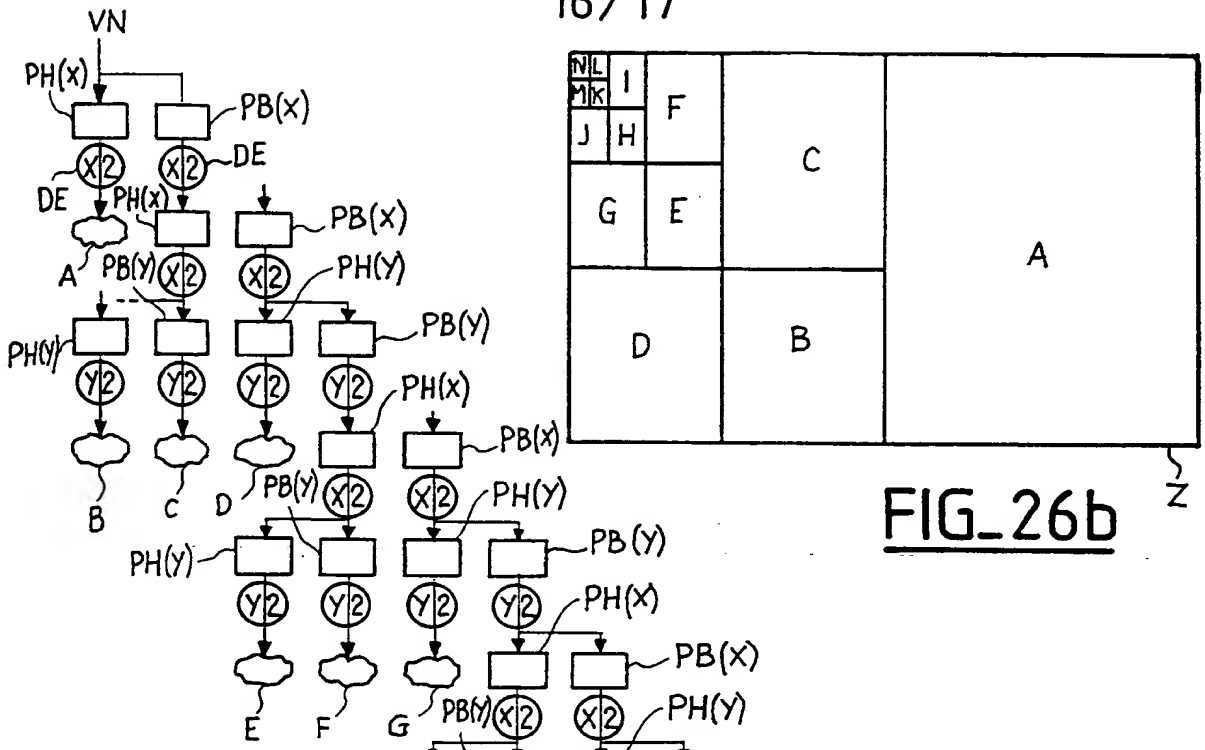


FIG_26b

FIG_26a

FIG_26c

FIG_27

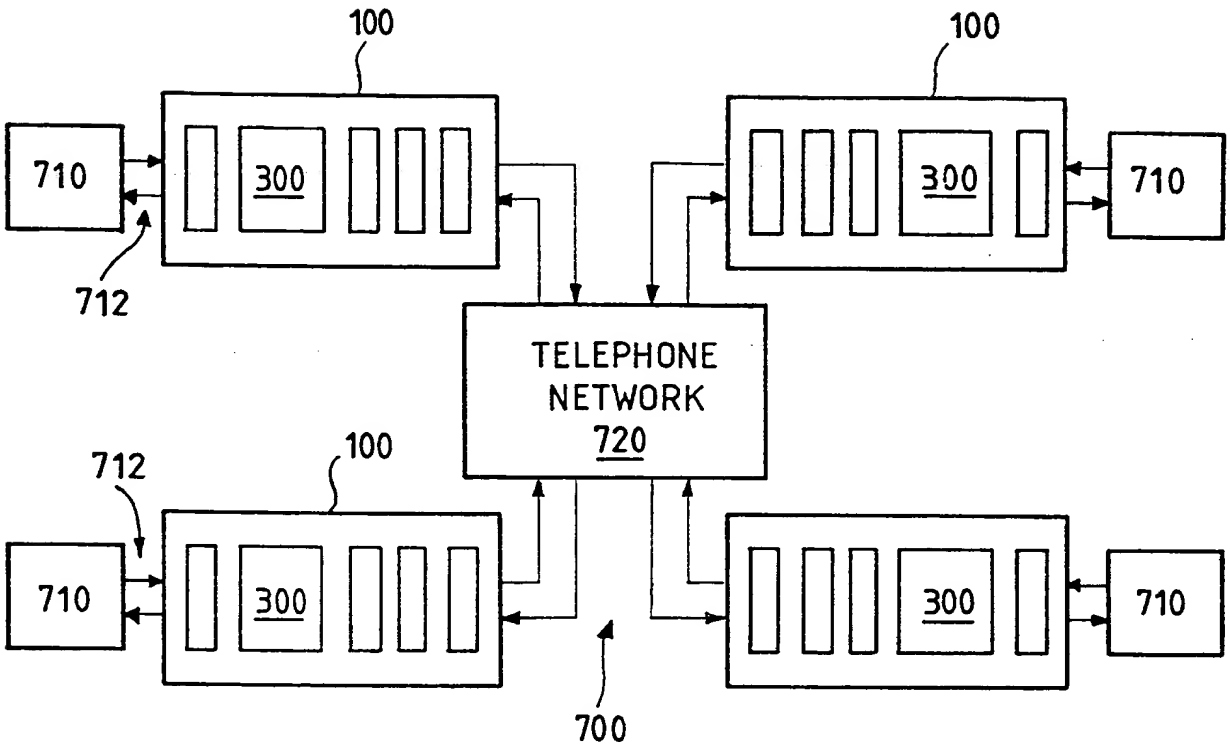
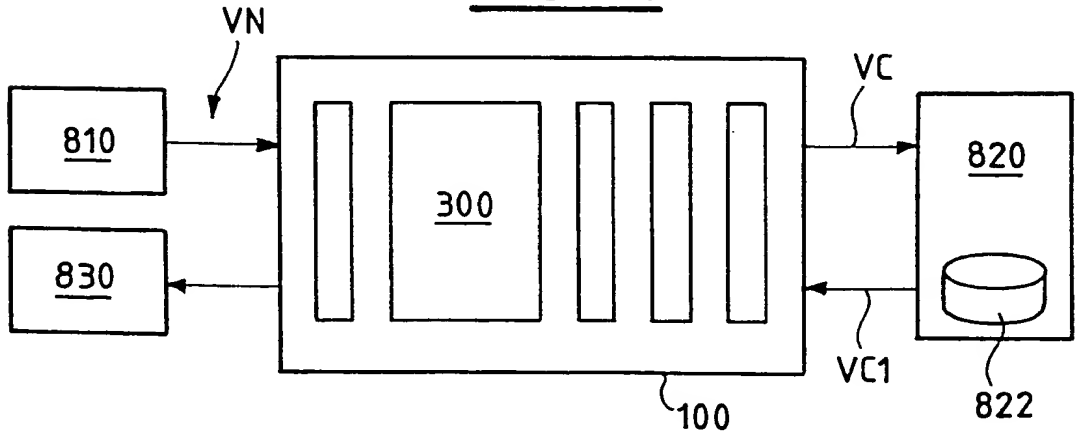

100
100
710
300
300
710
712
TELEPHONE
NETWORK
720
712
100
710
300
300
710
700

FIG_28


VN
VC
810
820
300
830
VC1
822
100